

## ABSTRACT OF THE DISCLOSURE

A light-transmitting apparatus for demultiplexing an input signal completing waveform division multiplexing into wavelength components and transmitting the wavelength components through their respective transmission lines includes a wavelength-count-detecting unit for detecting the number of wavelengths of wavelength components included in the input signal and determining whether the number of wavelengths is normal or abnormal. The light-transmitting apparatus further includes a plurality of identifier-detecting units each associated with one of the wavelength components and used for determining whether or not an identifier set in one of the wavelength components that has the associated wavelength is normal, and a judgment unit for forming a judgment on existence of an error for each of the wavelength components on the basis of a detection result output by the wavelength-count-detecting unit and a detection result output by the identifier-detecting unit associated with the wavelength component.